

Title (en)
Traffic incident detection system

Title (de)
Verkehrsstörungsdetektionssystem

Title (fr)
Système de détection d'incident de trafic

Publication
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Application
EP 08013364 A 20080724

Priority
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Abstract (en)
An object of the present invention is to provide a traffic information system that detects an unexpected incident such as a traffic accident or construction work from traffic information about surrounding road links. Historical traffic information is used to perform component analysis for a group of links that are targets of unexpected incident detection, and recovered traffic information for the historical traffic information is determined from computed top bases of the traffic information about the group of links. Difference statistical traffic information is generated from the difference between the historical traffic information and its recovered traffic information. For real-time traffic information, recovered traffic information for the real-time traffic information is determined from the top bases. The difference between the real-time traffic information and the recovered traffic information is compared with the difference statistical traffic information, and if the difference of the real-time traffic information is larger, the occurrence of an unexpected incident is determined.

IPC 8 full level
G08G 1/01 (2006.01)

CPC (source: EP US)
G08G 1/0104 (2013.01 - EP US)

Citation (applicant)
• JP 2005285108 A 20051013 - MATSUSHITA ELECTRIC IND CO LTD
• JP 2005352649 A 20051222 - DENSO CORP
• JP H03209599 A 19910912 - NIPPON SIGNAL CO LTD
• JP H11238194 A 19990831 - FUJITSU TEN LTD
• US 2006058940 A1 20060316 - KUMAGAI MASATOSHI [JP], et al

Citation (search report)
• [A] US 2006058940 A1 20060316 - KUMAGAI MASATOSHI [JP], et al
• [A] GB 2424111 A 20060913 - HITACHI LTD [JP]

Cited by
CN113947902A; EP2287821A1; CN104916131A; CN103680168A; US9286797B1; US9200910B2; US10395183B2; US9207105B2; US9207106B2; US9240123B2

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